Contents

Attwell, D., Wilson, M.: The Spatial Frequency Sensitivity of Bipolar Cells (*Erratum*) 138

Bahill, A. T., McDonald, J. D.: Model Emulates Human Smooth Pursuit System Producing Zero-Latency Target Tracking 213

Beck, J.: Textural Segmentation, Second-Order Statistics, and Textural Elements 125

Bomze, I. M.: Lotka-Volterra Equation and Replicator Dynamics: A Two-Dimensional Classification 201

De Bruin, G., Ypey, D. L., Van Meerwijk, W. P. M.: Synchronization in Chains of Pacemaker Cells by Phase Resetting Action Potential Effects 175

Carpenter, G. A., Grossberg, S.: A Neutral Theory of Circadian Rhythms: The Gated Pacemaker 35

Daunicht, W. J.: Re-Examination of a Linear Systems Approach to the Behavior of Mammalian Muscle Spindles 85

Eckert, H., Hamdorf, K.: Does a Homgenous Population of Elementary Movement Detectors Activate the Landing Response of Blowflies, Calliphora erythrocephala? 11

Foth, E., Graham, D.: Influence of Loading Parallel to the Body Axis on the Walking Coordination of an Insect. II. Contralateral Changes 149

Huijs, C., Koenderink, J. J.: Optimum Flux-Detection in the Absence of a priori Knowledge about the Signal 61

Inbar, G. F., Ginat, T.: Effects of Muscle Model Parameter Dispersion and Multi-Loop Segmental Interaction on the Neuromuscular System Performance 69

Kawahara, T., Katayama, K., Nogawa, T.: Nonlinear Equations of Reaction-Diffusion Type for Neural Populations 19

Kröller, J., Weiss, L.: The Silent Period in the Stretch Response of Ia-Activated Dorsal Spino-Cerebellar Tract Neurons to Sinusoidal Muscle Stretch in Cats 195

Krone, G., Kunz, D., v. Seelen, W.: On the Analysis of the Cat's Pattern Recognition System 115

Leibovic, K. N.: Bleaching of the Isolated Retina 109

Lehmann, S. L., Stark, L. W.: Multipulse Controller Signals. I. Pulse Width and Saccade Duration 1

Lehmann, S. L., Stark, L. W.: Multipulse Controller Signals. II. Time Optimality 5

Lehmann, S. L., Stark, L. W.: Multipulse Controller Signals. III. Dynamic Overshoot 9

Lelkens, A. M. M., Oppeneer, P. M.: The Frequency of Seeing Square Wave Density Modulations in Random Dot Patterns 165

Morasso, P.: Three Dimensional Arm Trajectories 187

Nagelkerke, N. J. D., de Weerd, J. P. C., Strackee, J.: Some Criteria for the Estimation of Evoked Potentials 27

Nakao, M., Hara, K.-I., Kimura, M., Sato, R.: Parameter Estimation of the Threshold Time Function in the Neural System 131

Oğuztöreli, M. N., Stein, R. B.: Optimal Control of Antagonistic Muscles 91

Sun, F., Krenz, W. C., Stark, L. W.: A Systems Model for the Pupil Size Effect 101

Vaitkevičius, H., Karalius, M., Sinius, M. J., Sokolov, E.: A Model for the Monocular Line Orientation Analyzer 139

Windhorst, U., Niemann, U., Koehler, W.: Analysis of Nonlinear Physiological Systems with Single or Multiple Spike Inputs and Analogue or Spike Outputs 159